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(71) Applicant (for all designated States except US): **PEN-
DRAGON MEDICAL LTD.** [CH/CH]; Hagenholzstrasse
81 a, CH-8050 Zürich (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CADUFF, An-
dreas** [CH/CH]; Klingenstrasse 21, CH-8005 Zürich

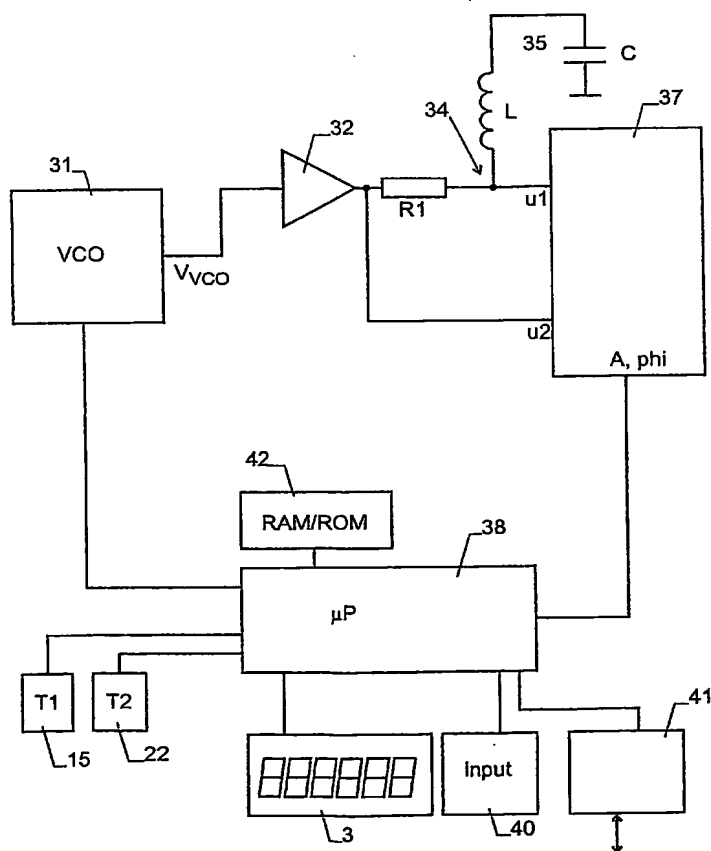
(CH). **BUSCHOR, Stephan** [CH/CH]; Stiglenstrasse
31/14, CH-8052 Zürich (CH). **TRUFFER, Pascal**
[CH/CH]; Giblenstrasse 55, CH-8049 Zürich (CH). **HIRT,**
Etienne [CH/CH]; Röhrliberg 50, CH-6330 Cham (CH).
STALDER, Gianluca [CH/CH]; Alpenstrasse 9, CH-8800
Thalwil (CH).

(74) Agent: **E. BLUM & CO.**; Vorderberg 11, CH-8004 Zürich
(CH).

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(54) Title: A DEVICE AND METHOD FOR MEASURING A PROPERTY OF LIVING TISSUE



(57) Abstract: A device for measuring the glucose level in living tissue has electrodes (5, 6) for being brought into contact with the specimen and a voltage-controlled oscillator (31) as a signal source for generating an AC voltage in a given frequency range. The AC voltage is applied to the electrodes (5, 6). A voltage over the electrodes is fed to a processing circuitry (37, 38), which converts it to the glucose level using calibration data. The voltage-controlled oscillator (31) has a symmetric design with adjustable gain for generating signals in a large frequency range with low distortions at a low supply voltage. The processing circuit comprises a simple rectifier network with software-based correction. The electrodes (5, 6) are of asymmetric design and optimized for biological compatibility.



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